REMARKS

The application has been reviewed in light of the Office Action dated June 29, 2004.

Claims 1-5, 12, 31-35, 41, 56-58 and 60 are pending in this application. By the present

Amendment, claims 1, 4, 5, 12, 31, 34, 35, 41, and 56 have been amended. It is submitted that

no new matter has been added and no new issues have been raised by the present Amendment.

Claims 1-5, 12, 31-35, 41, 56-58, and 60 were rejected under 35 U.S.C. §102(b) as

allegedly unpatentable over, "An Object-Oriented Approach to Directory Systems," by

C.M.R. Leung, IEEE Region 10 Conference on Computer and Communication Systems,

September 1990, Hong Kong, pages 736-740, hereinafter, "Leung". Applicant has carefully

considered the Examiner's comments and the cited art, and respectfully submits independent

claims 1, 12, 31, 41, and 56 are patentably distinct from the cited art, for at least the following

reasons.

Independent claim 1 relates to a method of storing data in a database, comprising,

obtaining both a protocol encoded raw form of a data to be stored and a syntax normalized form

of the data, and storing concurrently in **at least two entry tables** both the syntax normalized

form and the protocol encoded form.

Leung, as understood by the Applicant, relates to an X.500 directory implementation

supporting heterogeneous databases and describes a DIT table and a **single** ENTRY table. (*See*

Leung, page 738, Figure 6 and page 739, column 1, lines 1-14) holding detailed information

about each directory object. The DIT table is described as a table holding information of the

structure of the DIT with each record containing the system identifier as an object, that of its

parent, and a coded RDN. The ENTRY table is the single table in Leung described as the table

containing information about each directory object, with each record holding the system

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identifier of an object, and an attribute type of the object in normalized and raw forms. Leung thus relates to two objects, the DIT and ENTRY, stored as two relational tables (*See* Leung, page 739, column 1, lines 1-2), therefore having only **a single entry table**.

"[The approach of utilizing a single entry table] has been discredited by a number of text books and knowledge in the art, such as 'Object-Oriented Modeling and Design' by J. Rumbaugh, et al, 1991, ISBN 0-13-630054-5, in which at paragraph 17.3.8 it is clearly stated that 'putting all entities in the one [entry] table is not a good approach to relational database design'." (Applicant's present disclosure, page 3, lines 20-23).

Accordingly, Applicant finds no teaching or suggestion in the cited art of "storing concurrently in **at least two entry tables** both the syntax normalized form and the protocol encoded form, as recited in independent claim 1. Accordingly, Applicant submits independent claim 1 is patentable over the cited art. Independent claims 31 and 56 are patentable over the cited art for at least similar reasons.

Applicant also finds no teaching or suggestion in the cited art of a method of locating data in a database, wherein said data is stored **in at least two entry tables** in a protocol encoded raw form and linked to a concurrently stored syntax-normalized form of the data, comprising locating said protocol encoded raw data by searching on said syntax-normalized form of the data, as recited in independent claim 12. Independent claim 41 is believed to be patentable over the cited art for at least similar reasons.

The Office is hereby authorized to charge any additional fees which may be required in connection with this amendment and to credit any overpayment to our Deposit Account No. 03-3125.
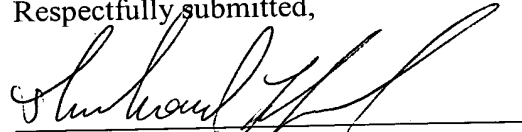
If a petition for an extension of time is required to make this response timely, this paper should be considered to be such a petition, and the Commissioner is authorized to charge the

requisite fees to our deposit account No. 03-3125.

If a telephone interview could advance the prosecution of this application, the Examiner

is respectfully requested to call the undersigned attorney.

Entry of this amendment and allowance of this application are respectfully requested.

Respectfully submitted,

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